

# WEST



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TITLE: FREQUENCY HOPPING SYSTEM

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## INVENTOR-INFORMATION:

NAME

COUNTRY

YAMAUCHI, NAOHISA  
SHIBUYA, AKIHIRO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI ELECTRIC CORP

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## ABSTRACT:

PROBLEM TO BE SOLVED: To reduce processings at the time of hand-off required at the time of high-speed movement by not using frequency hopping based on a prescribed frequency hopping sequence communicated by a base station and a mobile station in the case that the detected moving speed of the mobile station is more than a prescribed value and using it in the case that it is less than the prescribed value.

SOLUTION: A moving speed detection part 6 outputs the moving speed detection data 6t of the mobile station to a control part 9 based on moving speed information 6r from an antenna 1 and a reception part 3. The control part 9 performs or does not perform the frequency hopping between the mobile station and the base station depending on whether or not the moving speed exceeds the prescribed value determined beforehand. At the time of performing the frequency hopping, by frequency data 9t for which a frequency is decided by frequency hopping sequence data 9r from a transmission/reception data processing part 4 by the control part 9, a synthesizer part 5 switches the frequency. Thus, the frequency used in the mobile station is switched and the communication of high quality is more easily performed.

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